

MISSOURI DEPARTMENT OF NATURAL RESOURCES ENERGY CENTER – ENERGY REVOLVING FUND

│ 🕏 │ 🕒 │ HEATING PLANT REPLACE	# HEATING PLANT REPLACEMENT WORKSHEET				
BUILDING	LOCATION	DATE			
To estimate the savings possible from a heating the following information must be known:	plant replacement that is intended to increase the efficier	ncy and/or change energy sources,			
The annual heating cost. The efficiency of the existing The efficiency of the propose The existing energy cost (co The proposed energy cost (co	ed heating plant (in percent). st per million Btu).				
SAVINGS ESTIMATE					
	other purposes and the cost for heating the building is rece supplies heating as well as other needs of the building				
Total the seven energy bills that heating is i	ncluded in from October through April and enter that am	nount \$			
2. Enter the amount of the May energy bill that	t heating is included in	\$			
3. Multiply 7.0 by line 2	\$				
4. Subtract line 3 from line 1 and enter this va	lue on line 5 below.				
5. ANNUAL HEATING COSTS	\$				
	plant (percent divided by 100)				
	\$				
	g plant (percent divided by 100)				
	\$				
	energy source as the existing one, skip lines 10 through ad and existing plants are different, proceed with line 10.				
10. Enter the existing energy cost (\$/million Btu	ı)				
11. Divide line 9 by line 10	, \$				
•	itu)				
13. Multiply line 11 by line 12 and enter this val					
	\$				
ANNUAL SAVINGS					
15. Subtract line 14 from line 5	\$	/year			
PROJECT COST					
16. Enter the total cost for the proposed project	including material, labor and design	\$			
SIMPLE PAYBACK					
17. Divide line 16 by line 15	· · · · · · · · · · · · · · · · · · ·	years			

DESCRIPTION PAGE					
Heating Plant Replacement Energy - Conservation Measure					
Describe the existing system and the proposed energy-conservation necessary):	measure	(use	additional	sheets	if



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☐ COOLING PLANT REPLACEMENT WORKSHEET				
BUILDING	LOCATION	DATE		
To estimate the savings possible from a cooling pl the following information must be known:	ant replacement that is intended to increase the efficiency	and/or change energy sources,		
		e same rating as above.)		
SAVINGS ESTIMATE				
	ther purposes and the cost for cooling the building is known e supplies cooling as well as other needs of the building,			
Total the four energy bills that cooling is inclu	ded in from June through September and enter that amo	unt \$		
2. Enter the amount of the May energy bill that	cooling is included in	\$		
3. Multiply 4.0 by line 2	\$			
4. Subtract line 3 from line 1 AND ENTER THIS	VALUE ON LINE 5 BELOW.			
5. ANNUAL COOLING COSTS	\$			
6. Enter the SEER, EER, COP or (1/kw per ton	of the existing cooling plant			
7. Multiply line 5 by line 6	\$			
8. Enter the SEER, EER, COP or (1/kw per ton	of the proposed cooling plant (Use same rating as line 6.)			
9. Divide line 7 by line 8	\$			
	nergy source as the existing one, skip lines 10 through 13 and existing plants are different, proceed with line 10.	and enter the value from line 9		
10. Enter the existing energy cost (\$/million Btu)				
11. Divide line 9 by line 10	\$			
12. Enter the proposed energy cost (\$/million Btu	ı)			
13. Multiply line 11 by line 12 and ENTER THIS	VALUE ON LINE 14 BELOW.			
14. PROJECTED ANNUAL COOLING COSTS .	\$			
ANNUAL SAVINGS				
15. Subtract line 14 from line 5	\$	/year		
PROJECT COST				
16. Enter the total cost for the proposed project i	ncluding material, labor and design	\$		
SIMPLE PAYBACK				
17. Divide line 16 by line 15		years		

DESCRIPTION PAGE					
Cooling Plant Replacement Energy - Conservation Measure					
Describe the existing system and the proposed energy-conservation menecessary):	easure	(use	additional	sheets	if